



Pertussis Report

July 10, 2013

- **2013: 815 cases with onset in 2013** have been reported to CDPH (Table 1).
 - Statewide there has been an increase in reported cases compared to the same time period in the past year (Figure 1). Many San Francisco Bay Area counties have reported an increase in cases in recent months and school outbreaks have been reported from several counties.
 - 46 (6%) cases have been hospitalized
 - 32 (70%) of these are infants <4 months of age.
 - No deaths have been reported, to date.
 - The majority of cases (665; 82%) have occurred in infants and children <18 years of age. There have been relatively more cases reported in older adolescents than was reported in 2010 (Figure 2).
 - 81 (12%) were infants <6 months of age.
 - 424 (64%) were children/adolescents 7-16 years of age.
 - Rates by race/ethnicity are similar for white, black and Hispanics infants <1 year of age and lower for Asians/Pacific Islanders (Figure 3). Among adolescents, the highest rates are in White, non-Hispanics.
- **2012: 1,018 cases with onset in 2012** have been reported to CDPH.
 - 97 (10%) cases hospitalized.
 - No deaths reported.
- **2011: 3,004 cases with onset in 2011** have been reported to CDPH.
 - 294 (10%) cases hospitalized.
 - No deaths reported.
- **2010: 9,169 cases with onset in 2010** have been reported to CDPH.
 - 808 (9%) cases hospitalized
 - Ten deaths were reported; 9 (90%) were Hispanic infants.
 - The case-fatality rate among infants <3 months of age was 1.3%.

Table 1. Pertussis cases by year of onset and local health jurisdiction -- California, 2010-2013*

	2010¶		2011¶		2012¶		2013*	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
CALIFORNIA	9169	23.43	3004	7.58	1018	2.69	815	2.15
ALAMEDA	424	29.38	206	14.16	62	4.35	53	3.72
City of Berkeley†	13	12.13	3	2.80	7	6.08	3	2.61
ALPINE	0	0.00	0	0.00	0	0.00	0	0.00
AMADOR	4	9.92	11	26.79	1	2.71	2	5.42
BUTTE	32	13.91	16	6.81	3	1.36	0	0.00
CALAVERAS	9	18.85	5	10.28	0	0.00	0	0.00
COLUSA	11	46.24	1	4.11	0	0.00	0	0.00
CONTRA COSTA	205	19.05	114	10.45	24	2.24	34	3.18
DEL NORTE	16	51.64	0	0.00	0	0.00	0	0.00
EL DORADO	55	29.05	11	5.72	3	1.66	2	1.11
FRESNO	550	55.92	58	5.77	16	1.69	10	1.06
GLENN	1	3.24	1	3.17	0	0.00	0	0.00
HUMBOLDT	59	43.77	15	11.06	1	0.74	0	0.00
IMPERIAL	9	4.74	3	1.54	7	3.92	3	1.68
INYO	8	41.70	0	0.00	1	5.37	0	0.00
KERN	377	43.25	51	5.72	2	0.23	11	1.29
KINGS	26	15.80	6	3.56	0	0.00	1	0.66
LAKE	5	7.40	3	4.37	2	3.11	3	4.66
LASSEN	1	2.64	0	0.00	0	0.00	0	0.00
LOS ANGELES	1303	13.20	609	6.13	209	2.25	21	0.23
City of Long Beach†	68	13.80	17	3.45	4	0.86	4	0.86
City of Pasadena†	24	15.98	15	9.99	1	0.72	0	0.00
MADERA	120	74.02	8	4.79	0	0.00	3	1.98
MARIN	351	138.36	26	10.24	5	1.96	101	39.63
MARIPOSA	10	52.33	1	5.16	0	0.00	0	0.00
MENDOCINO	27	28.98	3	3.19	0	0.00	1	1.13
MERCED	131	47.82	27	9.61	0	0.00	0	0.00
MODOC	0	0.00	0	0.00	0	0.00	0	0.00
MONO	18	121.35	2	13.22	21	147.29	2	14.03
MONTEREY	132	30.47	38	8.69	17	4.02	6	1.42
NAPA	25	17.51	11	7.60	6	4.33	5	3.61
NEVADA	24	23.38	2	1.93	5	5.09	58	59.06
ORANGE	499	15.46	142	4.36	73	2.38	36	1.17
PLACER	62	17.84	19	5.35	11	3.05	32	8.87
PLUMAS	2	9.16	4	18.24	0	0.00	0	0.00
RIVERSIDE	469	20.95	163	7.08	46	2.05	24	1.07
SACRAMENTO	190	13.09	69	4.70	36	2.50	30	2.08
SAN BENITO	7	10.90	3	4.54	1	1.77	1	1.77
SAN BERNARDINO	182	8.36	114	5.14	54	2.61	7	0.34
SAN DIEGO	1141	35.66	399	12.34	159	5.05	67	2.13
SAN FRANCISCO	142	17.36	70	8.52	29	3.54	11	1.34
SAN JOAQUIN	84	11.33	27	3.54	15	2.15	13	1.86
SAN LUIS OBISPO	371	137.54	15	5.51	14	5.17	7	2.58
SAN MATEO	189	25.66	57	7.71	23	3.12	56	7.60
SANTA BARBARA	66	15.19	18	4.12	11	2.57	8	1.87
SANTA CLARA	481	26.18	173	9.34	45	2.46	136	7.44
SANTA CRUZ	87	32.46	22	8.15	12	4.48	14	5.23
SHASTA	32	16.69	27	13.85	2	1.12	1	0.56
SIERRA	0	0.00	0	0.00	0	0.00	0	0.00
SISKIYOU	10	21.23	0	0.00	2	4.48	1	2.24
SOLANO	40	9.07	12	2.68	10	2.40	4	0.96
SONOMA	246	49.66	116	23.21	18	3.68	24	4.91
STANISLAUS	159	28.41	43	7.51	11	2.10	2	0.38
SUTTER	5	4.89	1	0.94	0	0.00	2	2.10
TEHAMA	10	15.25	1	1.49	0	0.00	0	0.00
TRINITY	0	0.00	0	0.00	0	0.00	0	0.00
TULARE	231	49.48	77	16.06	26	5.76	11	2.44
TUOLUMNE	32	54.49	4	6.74	1	1.84	1	1.84
VENTURA	372	43.46	160	18.49	15	1.80	2	0.24
YOLO	17	8.25	5	2.38	6	2.94	1	0.49
YUBA	5	6.22	0	0.00	1	1.37	1	1.37

*Includes cases reported to CDPH as of 7/10/2013

¶Data have been updated from previous reports; population denominator data from the Department of Finance have been standardized with 2010 Census data

†City health jurisdictions not included in county total

Figure 1. Pertussis cases by month of onset -- California, 2009-2013*

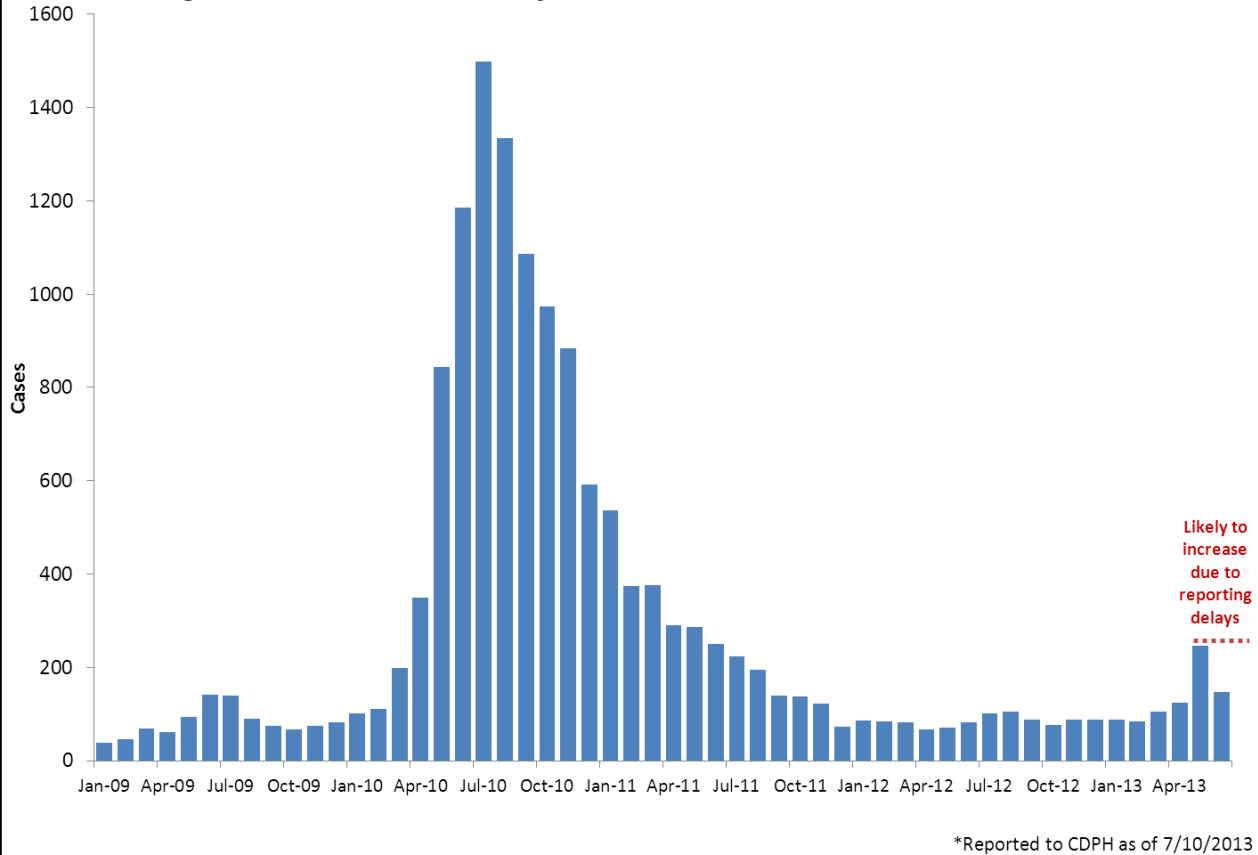


Figure 2. Pediatric pertussis cases by age - California 2010 and 2013*

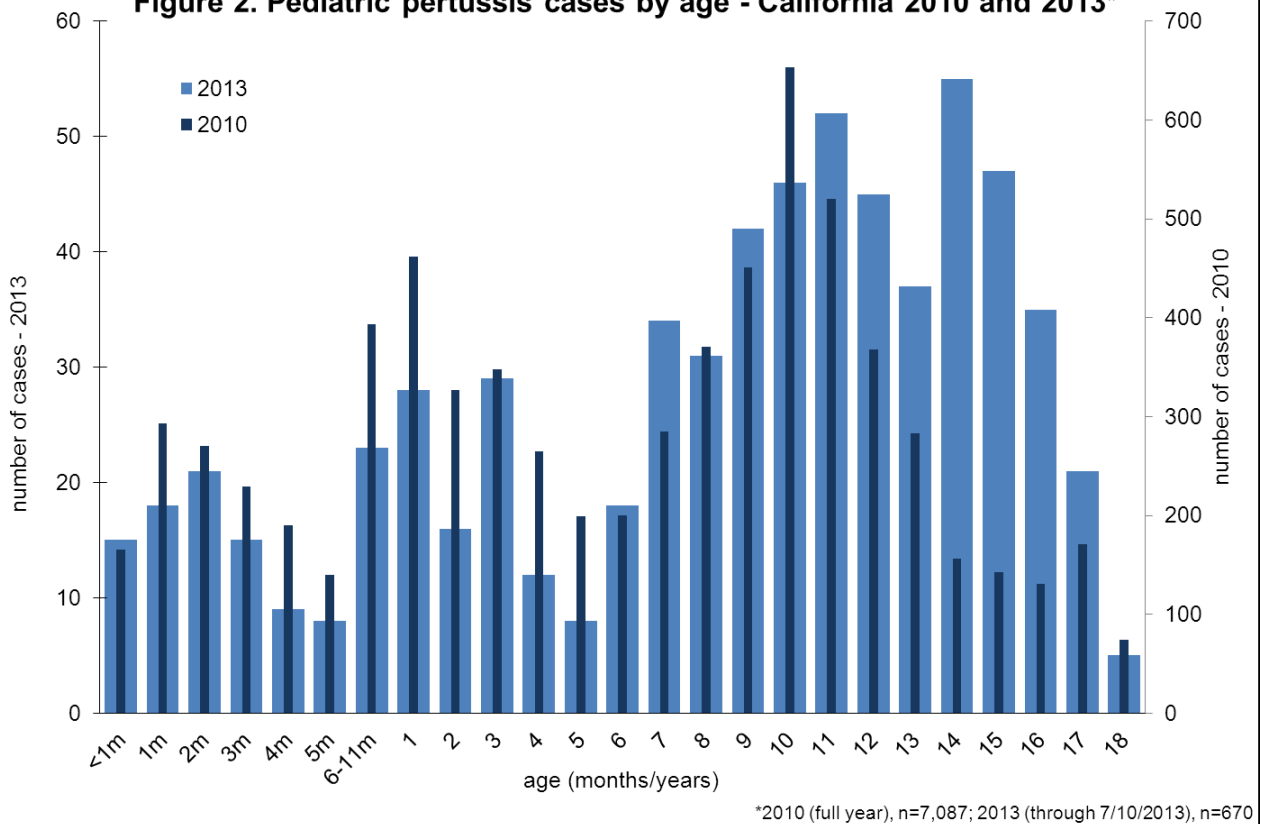


Figure 3. Pertussis rates by age and race/ethnicity -- California, 2013*

